

GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 9, 2002, 22:32:40 : Search time 534.05 Seconds  
(without alignments)  
12460.642 Million cell updates/sec

Title: US-09-117-447-1

Perfect score: 3687  
Sequence: 1 atgagatagaagaaagctgt.....ttacattctataatgaagtaa 3687

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1353412 seqs, 902441831 residues

Total number of hits satisfying chosen parameters: 2706824

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

1: Pending Patents\_NA\_New:\*  
2: /cgn2\_6/ptodata/2/pna/PCT\_NEW\_COMB.seq:\*  
3: /cgn2\_6/ptodata/2/pna/US06\_NEW\_COMB.seq:\*  
4: /cgn2\_6/ptodata/2/pna/US07\_NEW\_COMB.seq:\*  
5: /cgn2\_6/ptodata/2/pna/US08\_NEW\_COMB.seq:\*  
6: /cgn2\_6/ptodata/2/pna/US09\_NEW\_COMB.seq:\*  
7: /cgn2\_6/ptodata/2/pna/US10\_NEW\_COMB.seq:\*  
8: /cgn2\_6/ptodata/2/pna/US60\_NEW\_COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	54.6	1.5	7104	US-09-815-242-4580	Sequence 4580, Ap
2	54.6	1.5	7107	US-09-815-242-8291	Sequence 8291, Ap
3	50.4	1.4	7434	US-09-815-242-4761	Sequence 4761, Ap
4	50.4	1.4	7437	US-09-815-242-8869	Sequence 8869, Ap
5	48.4	1.3	2379	US-09-815-242-8229	Sequence 8229, Ap
6	48	1.3	2247	US-09-815-242-8694	Sequence 8694, Ap
7	45.6	1.2	1806	US-09-815-242-8260	Sequence 8260, Ap
8	45.6	1.2	1814	US-09-815-242-4205	Sequence 4205, Ap
9	45.6	1.2	45698	US-09-984-429-344	Sequence 344, App
10	44.8	1.2	29485	US-09-865-419A-10533	Sequence 10533, A
11	44.2	1.2	386	US-09-869-817A-14523	Sequence 14523, A
12	44.2	1.2	493	US-09-815-264-58099	Sequence 58099, A
13	44.2	1.2	38219	US-09-933-524A-104709	Sequence 104709, A
14	44	1.2	396	US-09-869-817A-21855	Sequence 21855, A
15	43.8	1.2	442	US-09-985-678-248315	Sequence 248315, A
16	43.8	1.2	608	US-09-985-678-219252	Sequence 219252, A
17	43.6	1.2	892	US-09-815-242-4510	Sequence 4510, Ap
18	43.4	1.2	1686	US-09-815-242-8222	Sequence 8222, Ap
19	43.4	1.2	1704	US-09-815-242-8854	Sequence 8854, Ap
20	43.4	1.2	1704	US-09-985-678-3430	Sequence 3430, Ap
21	43.2	1.2	273	US-09-865-439A-44547	Sequence 44547, A
22	43.2	1.2	666	US-09-865-439A-20769	Sequence 20769, A
23	42.8	1.2	661	US-09-933-524A-106456	Sequence 106456, A
24	42.2	1.1	446	US-09-815-242-8512	Sequence 8512, Ap
25	42.2	1.1	17388		

26	42	1.1	271	6	US-09-912-293-10728	Sequence 10728, A
27	41.8	1.1	3438	7	US-10-005-368-198	Sequence 198, App
28	41.8	1.1	305107	7	US-10-005-368-1	Sequence 1, Appl1
29	41.6	1.1	155	6	US-09-815-242-2135	Sequence 2135, Ap
30	41.6	1.1	282	5	US-09-815-242-1582	Sequence 1582, Ap
31	41.6	1.1	632	5	US-09-865-439A-30490	Sequence 30490, A
32	41.4	1.1	525	5	US-09-669-817A-9226	Sequence 9226, Ap
33	41.4	1.1	916	5	US-09-865-419A-16644	Sequence 16644, A
34	41.4	1.1	5613	6	US-09-873-676-114	Sequence 114, App
35	41.2	1.1	441	6	US-09-985-678-101327	Sequence 101327, A
36	41.2	1.1	2115	6	US-09-815-242-4279	Sequence 4279, Ap
37	41.2	1.1	2142	6	US-09-815-242-8224	Sequence 8224, Ap
38	41.2	1.1	146667	6	US-09-815-264-70626	Sequence 70626, A
39	41	1.1	696	6	US-09-922-261-193	Sequence 193, App
40	41	1.1	699	6	US-09-922-261-191	Sequence 191, App
41	41	1.1	717	6	US-09-922-261-189	Sequence 189, App
42	41	1.1	774	6	US-09-922-261-187	Sequence 187, App
43	41	1.1	819	6	US-09-922-261-185	Sequence 185, App
44	41	1.1	889	6	US-09-849-526A-13686	Sequence 13686, A
45	41	1.1	1330	5	US-09-865-419A-24843	Sequence 24843, A

#### ALIGNMENTS

RESULT 1  
US-09-815-242-4580  
; Sequence 4580, Application US/09815242  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4580  
; LENGTH: 7104  
; TYPE: DNA  
; ORGANISM: Staphylococcus aureus  
; US-09-815-242-4580

Query Match 1.5%; Score 54.6; DB 6; Length 7104;  
Best Local Similarity 42.4%; Pred. No. 0.036;  
Matches 361; Conservative 0; Mismatches 484; Indels 6; Gaps 1;

QY 628 gaagtacaagcgtgtgaagcagcgaattagacaagcgaagcgtgtgtatca 687  
DB 3100 gatataagataatgtcagcaataactgtatgataatgcaaaactaatgaagct 3159

OY	688	atcaataactacttaccaaaaglaacagatgctttccaaagtgaactaacagaagtgcg	747
Dd	3160	acaatcgagccattacacctgatgtcaaatgtttaaaccaacagcggaaaccaagcaattgct	3219
OY	748	aaaaaagcattagatgtagatgaagctgcgcttactccaagaagtgaagtgtgagtcg	807
Dd	3220	gataaagtlacaagcgcaagagaacagccaatttgatgctataacggtgcacacacagaagaa	3279
OY	808	attaacactcaaaaacaagaagctgttgaaatltaacagcagtaaccagtgaaacggaacactaaa	867
Dd	3280	aaagcagctgcggaacaacaaagtltaacaactgaaaaaaacaacagctgatatcacgaatgtgat	3339
OY	868	ttaacaattcagctgctgtgcaaatgaagatacagtaaacgtlaatalctgtlactatctat	927
Dd	3340	ggtgcacatacanaatgcagaggttgaagcgcgtataaaatlycagaanaattgctaanaattgaa	3399
OY	928	aaagltgacggtlaacattccaattgcccttaatacgcgcagatgtttcttatctacagac	987
Dd	3400	gcaattcagccagcaacaacaactaaagataatgcgaaacaagcaattgctacgaaagcg	3459
OY	988	ggaaaaactatacactgttgtgacttccaactccattcgaaaataatacagtgagtataaagta	1047
Dd	3460	aatgaaacgtaaaaacagccaatcgctcaaaacgcgaagacattlactgtctgaagaaatltgcagcg	3519
OY	1048	gtagtt-----aaaggtatttaaagacaaaatgycgaagaatttaaagaagatgcattc	1101

QY	1102	actttcaagcttcgaaatgatgctgtagttactactcaagtgttggaaactaatgttaacaaac	1161
Db	3580	agtcaaaatgatgtlagaccaagcgaanaacaactggtgaagctagattgtatcgaagtaaca	3639
QY	1162	aacactctctgtaaacttagcagcaggtactttcgacactgacgatactttaaccagttagta	1221
Db	3640	ccaacagtttaataaaaaagcaaacagcaggttacagacgcgaaaaataataattacagctgca	3699
QY	1222	tttgataagttgttagcaccttgaactgttaaacagctcgaacggttactattacagatgtt	1281
Db	3700	actgatgatataatgtgtgtagatacagcgaaagatgacggtgtaaaaaattcgattccaagttaca	3759
QY	1282	gaactgtgaaaaacgcattccagtaattgtcatctactctctgtgttctacaatttacttacg	1341
Db	3760	caaccagcaacacagcggtttaaatccaatgcttaaaaaatgattgtgtatcgaagctgttgcaact	3819
QY	1342	ttaaaaagaagcggttagttaactggttaacaacataataaacttgcatacataatgtttaaaaa	1401
Db	3820	caaaaatcaagcaatttgtataataacaactggtgtctacaactgtgaagaaaaaaaatgcaagcaaaa	3879
QY	1402	ttaactggttacaatgcagaagcttacgagttagtgttccaactgcaaacgcatacgaccaca	1461
Db	3880	gatttagttttaaaagcttaaaagaaaagcgtatcaagatactttaatgcaacaacaact	3939
QY	1462	actgttgcctac	1472
Db	3940	aacgatgttac	3950

```

RESULT 2
US-09-815-242-8291
: Sequence 8291, Application US/09815242
: GENERAL INFORMATION:
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Kari L.
: APPLICANT: Zyskind, Judith W.
: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert F.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: TITLE OF INVENTION: Prokaryotes
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242

```

```

? CURRENT FILING DATE: 2001-03-21
? PRIOR APPLICATION NUMBER: 60/191,078
? PRIOR FILING DATE: 2000-03-21
? PRIOR APPLICATION NUMBER: 60/206,848
? PRIOR FILING DATE: 2000-05-23
? PRIOR APPLICATION NUMBER: 60/207,727
? PRIOR FILING DATE: 2000-05-26
? PRIOR APPLICATION NUMBER: 60/242,578
? PRIOR FILING DATE: 2000-10-23
? PRIOR APPLICATION NUMBER: 60/253,625
? PRIOR FILING DATE: 2000-11-27
? PRIOR APPLICATION NUMBER: 60/257,931
? PRIOR FILING DATE: 2000-12-22
? PRIOR APPLICATION NUMBER: 60/269,308
? PRIOR FILING DATE: 2001-02-16
? NUMBER OF SEQ ID NOS: 14110
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 8291
? LENGTH: 7107
? TYPE: DNA
? ORGANISM: Staphylococcus aureus
? FEATURE:
? NAME/KEY: CDS
? LOCATION: (1)...(7107)
US-09-815-242-8291

```

Query Match	1.5%;	Score 54.6;	DB 6;	Length 7107;
Best Local Similarity	42.48;	Pred. No. 0.036;		
Matches 361; Conservative	0;	Mismatches 484;	Indels 6;	Gaps 1;

QY	628	gaagltacaagaacgctgtgtgaaaagcaggccaattttagacaaagctaagctgcgtttgatcaa	687
Db	3100	gatatagataatgtctgcagcaaatactgtatgtagataatgtcaaaaactactcatgtgaagct	3159
QY	688	atccatcaatacttaccaaaaagttaacagatgtcttcaaaactgnaactaacagaagtacg	747
Db	3160	acâatcgacgccattaccacctgtgcfaatgtttaaccaacacgcgaaacacagcaattgct	3219
QY	748	aaaaaagcattlagatgcagatgtgaagctgcgccttactccaaaagttgaaagtgtgaagtgcg	807
Db	3220	gataaagtlacaagcgcgcaagyaaacagccaatttgtctcâataacgyltgcaacacagaagaa	3279
QY	808	attaacactlcaaaaacaaagctgtltgaattaacagcagtlaccagltgaaacggaacataaaa	867
Db	3280	aaagcagctgcgaaacacacaaagtlccaactgtaaaaaaacacacagctgatalacagcaattgat	3339
QY	868	ttaacaacttcagctgcgtgcâaatgaaagatacacgtataaacglaataactgtlacgtatctat	927
Db	3340	ggtgcacatacaaatgcagaaaglttgaagcgcgtataaaaatgcagaaatltgtcaaaaattgaa	3399
QY	928	aaagtgcagcgttaacatctccatttggcccttaatacagcgcagatglttcttatactacagac	987
Db	3400	gcaattcagccagcaacaacaactaaagataatgcgaaacacagcaattgtcâcgyaaacgcg	3459
QY	988	ggaanaactatcacgtgtgatgtcttcaactccattcgaanaataatacggagataaagla	1047
Db	3460	aatgaacgttaaaaacagccaatcgtctCaacgcgaagacatttactgtcgaagaanaattgcagcg	3519
QY	1048	gtaglt-----aaaggtattaagacacaaaatgycâaaagaatttaaagaagatgcattc	1101
Db	3520	gcaaatgcgaatgttagataatgtctgtgacacaaagcaataataacacatttgaagctgtcataat	3579
QY	1102	acttcaagcttcgaaatgatgtctgtagttaactcaagltgttgyaactaatgttaacaaac	1161
Db	3580	aglcâaanaatgttagaccâagcygâaaaacaaactgtytgaagctagtattgtatcgaaglaaca	3639
QY	1162	aacacttctgtaaaccttagcagcaggtacttctgcacactgacgatactttaaocagtagta	1221
Db	3640	cçaacagtttaatabaaaagcaacacagcaglttacgacgcgcaâââataataatacagctgca	3699
QY	1222	tttgataagttgttagcacctgâaaactgttaaacagctcgyaacgttactatacagatglt	1281

Db 3700 actgatgataatggtgtagatatacagcgaaagatgcaggttaaaaattcgattccaaagtlaca 3759  
QY 1282 gaactggaanaacgcattccagtaattgcatactactctgtgttctacaattactatcag 1341  
Db 3760 caaccagcaacgcggtttaataatgcataaaatgatatgttgatcaagctgtgacaact 3819  
QY 1342 ttaagaagcggttagtaactggtlaaacaataaacttgctatatcaataatgtttaaaca 1401  
Db 3820 caaatcaagcaattgtataatacaactggtgtctacaactggaagaaaaaatgcaagcaaa 3879  
QY 1402 ttaactggttacaatgcagaagcttacgagttagttgttcaactgcaaacgcatacagcacca 1461  
Db 3880 gattagttttaaaaagctaagaagaaagcgtatcaagatatcttaaatgcaacaacaact 3939  
QY 1462 actggtgctac 1472  
Db 3940 aacgatgttac 3950

RESULT 3  
US-09-815-242-4761  
; Sequence 4761, Application US/09815242  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4761  
; LENGTH: 7434  
; TYPE: DNA  
; ORGANISM: Staphylococcus aureus  
US-09-815-242-4761

Query Match 1.48; Score 50.4; DB 6; Length 7434;  
Best Local Similarity 41.3%; Pred. No. 0.31;  
Matches 715; Conservative 0; Mismatches 981; Indels 36; Gaps 4;  
QY 52 agtgcattgtcgctgcaaatccaaacgcttctgaagcggtacagatgtagcaacagta 111  
Db 2392 aatgcagctaaagttctgtgtttaagcaattgaaagcagcaacgactgcacaagattta 2451  
QY 112 gtaagccaagcaaaagcacagttcaaaaagcatactatacttaccagcatatacagtaacg 171  
Db 2452 gaaagagtttaaaaaagaaataatctcaaaaattgaaaataattactgactcttaacgaaaca 2511  
QY 172 gaaactggtgaattcccaaacattaacgattatatgtctgaatatacaacaagcgaaaaa 231

Db 2512 aaaatgtagtgcct-----ataatgaaagttaaacaagctgcgaacagctagaaaaa 2559  
QY 232 cgataccgtgtagcggttagcatagtgaataaagcaggtgcgcgaaaaaagacgcttac 291  
Db 2560 gctcaaaatgctaacagtttcaaatgcaacaacaatgaaagaagtagcagaagctgtagcagca 2619  
QY 292 ttagctgatttcaaaaagaatatgaaaactttagcgttttccaagcaaaccttaaatctgyc 351  
Db 2620 gtagatgcagcttcaaaaagcaaggtttacatgacatccaagttgtttaaatacaaaacagga 2679  
QY 352 gaagctcgtagcaacttaccatcgatgcttacaactatgcaacaacaattagacgaatg 411  
Db 2680 gttgctgatacaaaaatcaaaagtattagataaaatcaatgcaattcaaacacaagcaaaa 2739  
QY 412 cgccaagagctagaggctgctgttcaagcaaaaagatttagaaaaagcagaacaatactat 471  
Db 2740 gttaaacctgcagctgatacgyaagtagaanaacgcataataacacgylaaacaagaat 2799  
QY 472 cacaanaattcctatgaaatlaaaactcgcacagtlcatltagatcggtataltgyltaa 531  
Db 2800 caaatagcaatgttcaactacagagaanaaacaagctgcataatacagaattagataact 2859  
QY 532 acaactcgtgatttacttcgctctacattttaaagcaaaaagcacaagaacttcgcgcagc 591  
Db 2860 aaaaagcaagaagcaagaacaacaatcttgcgtgcgaatatacaaacacagtgyltaacaaca 2919  
QY 592 ttaattatgatatataccgltgcaltgaaagcgcgcgaagtagacaagacgctgtgaaagca 651  
Db 2920 gctaaagacaataagtatgtgcgaatttaacgaagttcaagctgccacaactaagaatcg 2979  
QY 652 ggcatttagacaagaagctaaagctgctgtgtatcaaatcaatcaacttaccaaaagta 711  
Db 2980 g---atgcaaaagcggaaatcgctcaaaaagcaagtgaacgyltaaacagcaattgaaagca 3036  
QY 712 acagatgcttcaaaaactgaaactaacacagaagtagcgaanaaagcattagatgcagatgaa 771  
Db 3037 atgaatgattcgactactgaagaacacaacagcagcaagaacaaagylgatlcaagcagla 3096  
QY 772 gctgcgcttactccaaaagttgaaagtgtaagtgcgattaacactcaaaaacaaag----- 826  
Db 3097 gttactgcaaaacgcgtgatataagataatgctgcgcagcaacaacatgattgcygataatgcaaaa 3156  
QY 827 -ctgttgaaltaacagcagtlaccagtgaaacggaaacactaaaattacaactttcagctgc 885  
Db 3157 actacaatgaagctcaaatcgcaagccattacaccttgatgcaaatgtttaaacccagcagca 3216  
QY 886 gcaaatgaagatacagtlaaacgyltaaatactgtagtaltctataaagtygaacgyltaacatt 945  
Db 3217 aaacaagcaattgcagataaagtagacaagcttcaagaacacagcaattgtagaataacgyc 3276  
QY 946 ccatttgccttaataacgcagatgtttctttatctacagacggaanaactatacactgtg 1005  
Db 3277 tcaacaactgaaagaaaagcagctgctlaaacaacaagaagtlcaaacctgaaaaaacaacacagct 3336  
QY 1006 gatgcttcaactccattcgaaaataatagcgagtataaagtagtagttaaaggtattaa 1065  
Db 3337 gatgcgcgaatagatgcagcacatacaaatgcygaagltgaaagcgcgttaaaaaagcagca 3396  
QY 1066 gacaaaatgycaaaagaattttaaagaagatgcattcaacttcaagcttcgaaatgatgct 1125  
Db 3397 attgctaaaaattgaaagcgatttcaagccagcaacaacaactaaagaatgtagcgaagaagca 3456  
QY 1126 gtagttaactcaagtgttgyaactaatgyltaacaa-----acaacacttct 1170  
Db 3457 attgctacgaaagcgaatgaaagcyltaaaacagcaatcgctcaaaacgcaagacattactgct 3516  
QY 1171 gtaaaactlagcagcagglacttgcgacactgacgatalacttlaacagtaglaltgyltaaag 1230  
Db 3517 gaagaaatlgcagcgcgtaatgcygacgtagataatgctgtgacacaaagcaaatagcaac 3576  
QY 1231 ttgtagaccctgaaactgyltaaacagctcgaaacgyltactattacagatgttgaacgtga 1290  
Db 3577 attgaagctgctaataagttcaaaatgatgttagaccaagcgaaacgcagcaggtgaaataagt 3636



[illegible]

```

RESULT 4
US-09-815-242-8869
: Sequence 8869, Application US/09815242
: GENERAL INFORMATION:
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Kari L.
: APPLICANT: zyskind, Judith W.
: APPLICANT: wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert T.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242
: CURRENT FILING DATE: 2001-03-21
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: NUMBER OF SEQ ID NOS: 14110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 8869
: LENGTH: 7437
: TYPE: DNA
: ORGANISM: Staphylococcus aureus
: FEATURE:
: NAME/KEY: CDS

```

US-09-815-242-8869

Query Match	1.4%	Score 50.4;	DB 6;	Length 7437;
Best Local Similarity	41.38;	Pred. No. 0.32;		
Matches 715; Conservative	0;	Mismatches 981;	Indels 36;	Gaps 4;

QY	52	agtcgacattgtcgtgcgaatcccaacgcgtctctgaagcgcgtacagatgtlagcaacagta	111
Db	2392	aatgcagctaaagtttcgtgtttaaagcaattgaagcgacaacgactgcacaagattta	2451
QY	112	gtaagccaagcaanaagcacagttccaanaaagcatactatacttacagccatacagtaacg	171
Db	2452	gaaagagttaaaaacgaagaatctcaanaattgaaatattactgtactctacgcaaca	2511
QY	172	gaaactggtgaattcccaaacattaacgattatattgcctgaatatcacacaagcgaaaaa	231
Db	2512	aaaatgtagtcct-----ataatgaagttaaacaagctgcacacagctagaanaa	2559
QY	232	cgataccgtgatgcgcgtagcatctagtgaataaagcagctgcgcgcaaaaaagacgcttac	291
Db	2560	gtctcaaaaatgtctacagttlccaatgcacaacaatgaaagatgacgaagctgtatgcagca	2619
QY	292	ttaagctgatttacaanaaagataatgaaacttaagtttccaagcaaaacctaaatctggc	351
Db	2620	gttagatgcagctcaaaaagcaaggtttacatgcacatccaagttgtttaatacaaaaacagaaa	2679
QY	352	gaagctcgtgtagcaacctacacgcgaltgcgttacaaactatgcacaacaaatltagacgaatg	411
Db	2680	gttcgtgtatacaanaatcaaaagtattagataanaatcaatgcgaalttcaaacacaagcaaaa	2739
QY	412	cgccaagagctlagagagctgcggttccaagcaaaaagatttgaaaaaagcagaacaatactat	471
Db	2740	gtttaaactgcagctgatacgcgaagtagaanaacgcataatacagctaaacaagaatc	2799
QY	472	cacaaaaattccttatgtgaatctuaaaactcgcacagtcacatttagatcgcgtatatgtgtaa	531
Db	2800	caaaaatagcaatgtcttcaactcacagaagaaaaacaagctgcataatacagaatttagatact	2859
QY	532	acaactcgtgatttactctgcctctacatttaagcaaaaagcacacaagaactcgcgcagcgc	591
Db	2860	aaaaagcaagaagcaagaacaacaattctgtatgcgtcaaatcaacaacagtgatgtatacaaca	2919
QY	592	ttaatttatgatatataccgtctgcaatgaaagcgcgcaagtaacaagcgtgtgaaagca	651
Db	2920	gtctaaagacaatagtalctgtcgtcaaatcaatcaagttcaagctgccacaactaagaatcgc	2979
QY	652	ggcaatttagacaagaagctaagctgtcgttgtatcaaatcaatcaatcacttaccaaaagta	711
Db	2980	g---atgcaaaagcggaatcgcgtcaaaaagcaagtgaacgttaaaacagcaatttgaagca	3036
QY	712	acagatgcttccaactgaactaacagagtagcgnaaaaaagcatltagatgcagatgaa	771
Db	3037	atgaatgatctgcactactgtgaagaacaacaagcagcgaaagacaaagtgtgatcacaagcagta	3096
QY	772	gctgcgccttactccaaaagttgaaaagtgtaagtgcgalttaacactcaaaaacaag-----	826
Db	3097	gttactgcaaaacgctgatataagataatgtcgtcagcaacaacaaatgattgtgataatgcanaa	3156
QY	827	-ctgttgaalttaacagcagtaaccagtgaaacggaacactaaaatltaaacactttcagctgct	885
Db	3157	actacaatatgaagctacacatcgcagccacttacacctgatgtcaaatgtttaaacacgacagca	3216
QY	886	gcaaatgaaagatacacagtaaacgttaaatactgttacgttatctataaagtggaacgttaacatc	945
Db	3217	aaacaagcaattgcagataaagtaacaagctcaagaaacacgcaattgatgtgaaataaacgctc	3276
QY	946	ccaattgcccttaataacgcgcagatgttcttatactacagacgcgaaaaaactatacactgtg	1005
Db	3277	tcaacaacttgaagaaaaagcagctgtctaaacaacaagtttcaaaactgaaaaaaaacacagct	3336
QY	1006	gagtccttcaactccactcgaanaataatacggagataaagtagttagttaaagttaaa	1065

Db	3337	gattccgcgaatagatgtcagcacacatacaaatgtcggaagtgtgaagcgcgtctaaaaaagcgaca	3396
OY	1066	gacaaaatatggcaaaagaatttaaagaagatgtcatcttcacttccaagttcgaatatgatgtc	1125
Dd	3397	attgtctaataattgaagcgaatttcaggccagcaaccaacaactaaagataatgtcgaaaaagaca	3456
OY	1126	gtagttaactcaagtggttctggaaactaatgtlaacaa-----acaaaccttct	1170
Dd	3457	attgtctacgaaagcgaaatlgaacgtlaaacaacagcaatcgctcaaacygaacagaccattactgt	3516
OY	1171	gtaaacttagcagcaggtacttctgcacactgcagacatactttaacagtagtatattgataag	1230
Dd	3517	gaagaaattgcagcgcgttaattgcgcgactagataatgtgtgacacacaagcaaatatgcaac	3576
OY	1231	tgtttagcaccttgaanaactgtlaaacagctcgyaacgttactattacagatgttgtaaactgga	1290
Dd	3577	attgaagctgtctaataatgtcaaatatgtgtagaccaaagcgyaaaacgcagcaggtgaaatatgt	3636
OY	1291	aaacgcattccagtaattgtcatctacttctcgttctctacaattactattlacgltlaaangaa	1350
Dd	3637	attgatcaagtaaccaccacacagtttaataaaaaagcaactgcacgtlaatgtaaatccacagca	3696
OY	1351	gcgttagtaactgtgtlaaacacataataaacttgtctatcataatgtltaaaacattactgtgt	1410
Dd	3697	attttaataacaanaattgycagaagatltcaagctacgcccagatgycacagatgtgaugaaaaa	3756
OY	1411	tacaatgcagaagcttaccgagtltagtgttcactgcagcaaacgcatacagcacaactgtgtct	1470
Dd	3757	caagcagctgtatgtctgaagcaaatactygaanaatgttcaagcaaatcaagccatttcagca	3816
OY	1471	accgctcctactactttaggtgtgtacaaacttatctactgtgttctctacaacaaatgtlt	1530
Dd	3817	gcaactactaacgcacaaagttgatgaagctlaaagcacaatgcagaagcagcgatlaatgcg	3876
OY	1531	tggggtaaatttgcgtcgtgtgtgtgaatgaagctgygaacttattatccctgtgtctucaattc	1590
Dd	3877	gtaacaccacaaaagtttgygaagaagaacaacagcgcgttaaagatgnaatttgatcatcttacagca	3936
OY	1591	acaacacacgtttgtctactaagttagacgcaatctactttagctgtataacttgtatlagtt	1650
Dd	3937	acgcacaacaatatgtttatccaataatgtatcagaacgcgttacaacagagaagaaaaagaaagcagct	3996
OY	1651	gaaaaaagaatctgtgtacagttgttgccttctgtgaactaaaaataatatgtcagacgcgtcaaatg	1710
Dd	3997	attcaacaatlttagcaacagcaggtttacagacgcgcgaaaaataatattacagctgtcgaactgtat	4056
OY	1711	gtaaacttagtgcacaaaagcgcacctttaaagaaaatacaatctatacaaatca	1762
Dd	4057	gataatgtgttagatcaaggcgyaaaagacgcgtggaagaagaattcaattccaagca	4108

```

RESULT 5
US-09-815-242-8229
; Sequence 8229, Application US/09815242
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
;

```

```

; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8229
; LENGTH: 2379
; TYPE: DNA
; ORGANISM: Staphylococcus aureus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2379)
US-09-815-242-8229

```

Query Match	1.38;	Score 48.4;	DB 6;	Length 2379;
Best Local Similarity	49.18;	Pred. No. 0.6;		
Matches 158; Conservative	0;	Mismatches 161;	Indels 3;	Gaps 1;

QY	2252	taacagcaaccaacggtttacaanaaaglatlccaagggtgattcttlaaagaagcgtgatgcag	2311
Db	896	taacagaacaacactcataacagtgltgaagaagtgaacaacataltgaagaagctggtgaag	955
QY	2312	ttactacacttacgaacggttgatgycaggtccaanaattcacatalccaatttagcgaagaat	2371
Db	956	ttacgaatgtatcgtatcgtgttccaccggttaacttacttataccaacctgcgaacaacaa	1015
QY	2372	taaaaactctagtggtctctttagtgggtgycgaagtaactgtcgagaattacaacaa	2431
Db	1016	aagcacacatctaagcgtgaagtacacacgyltaagagacaagtactagagatacatlaaag	1075
QY	2432	acggaatggttagatgctggttactggaacaaactgtatcatcgttgcctctaagacagatgcaa	2491
Db	1076	attctggggtlaaatgca---aaagtgcacacaataataaatttgctctgcagttaactcaat	1132
QY	2492	atggttaagtaacacagctgctgtgtgttatacatlaactggtcttgacaataacgcacaagaatg	2551
Db	1133	atgaaatccaaccagctccaaggggtltaaaagtgtgtaaaaaattgtaaaacttgcataatgata	1192
QY	2552	cgaaatgcgctcgtgtaagtaga	2573
Db	1193	ttgcattagctttagcagcaaa	1214

```

RESULT      6
US-09-815-242-8694
; Sequence 8694, Application US/09815242
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727

```

```
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8694
; LENGTH: 2247
; TYPE: DNA
; ORGANISM: Staphylococcus aureus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2247)
US-09-815-242-8694
```

```
Query Match          1.3%; Score 48; DB 6; Length 2247;
Best Local Similarity 48.8%; Pred. No. 0.73;
Matches 160; Conservative 0; Mismatches 165; Indels 3; Gaps 1;
```

```
QY 2246 aagacgtaacagcaccacggttacaagaatattcaagtgattctttaaagacgtcg 2305
    ||| ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 758 aacaattaacagacaacactcaaacagtggttgaagtgaaaaaacactattgaagaagctg 817

QY 2306 atgcagttactacacttacgaaagttgatgcaggtcaaaaattcaactatccaattagcg 2365
    || ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 818 gtgaagttacgaatgtatcgtatgtgttccaccgttaacttacttaaccaactgcga 877

QY 2366 aagaattaaaaactctagtggtctttagtggtggaagtaactgtcgaagaattaa 2425
    || ||| ||| ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 878 aacaaaaagcaacatctaagctgaagtgcaacgtaaggaagtaactagagaatacat 937

QY 2426 caaacaacgagatggtagatgctgtgactggaacaactgtatcagttgctcctaagacag 2485
    ||| ||| ||||| ||||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 938 taaaagattltgggttaaatgca---aaagtgacacaaattaaattgttcctgcagtaaa 994

QY 2486 atgcaaatgtaagaatacagctgtgtgttacattaaactgtcttgacaataagaca 2545
    || ||| ||| ||| ||||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 995 ctcaatatgaattcaaccagctcaagggtttaaagtgaataaattgttaaaacttgcata 1054

QY 2546 aagatgcgaatttcgctcgtctgtagtaga 2573
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1055 atgatatgcattagcttagcagcaaaa 1082
```

```
RESULT 7
US-09-815-242-8260
; Sequence 8260, Application US/09815242
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
```

```
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8260
; LENGTH: 1806
; TYPE: DNA
; ORGANISM: Staphylococcus aureus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1806)
US-09-815-242-8260
```

```
Query Match          1.2%; Score 45.6; DB 6; Length 1806;
Best Local Similarity 46.3%; Pred. No. 2.3;
Matches 150; Conservative 0; Mismatches 174; Indels 0; Gaps 0;
```

```
QY 752 aagcattagatgcagatgaagctgcgttactccaagaattgaagtgtaagtgcatla 811
    || ||| ||| ||| ||||| ||||| ||| ||| ||| ||| ||| ||| ||| |||
Db 368 aaacacglttctgacttaaaaagcgttagaacaacacgaaacctgtgtgttgta 427

QY 812 acactcaaaaacaaagctgttgaattaacagcagttaccagtgaaacgaacataaattac 871
    || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 428 ataaaattgataaaccatcagcagctccagaggtgtgtgtagatgaagtttagattat 487

QY 872 aacttcagctgtgcaaatgaagatatacagtaaacgtaaatactgtacgtatctataaag 931
    || ||| ||| ||||| ||||| ||| ||| ||| ||| ||| ||| ||| |||
Db 488 ttattgaattagaagcaaacagatgaacaattagaattccctgtgtttatgtcttcagcag 547

QY 932 tggacggtaacattccatttgccttaataacagcagcagatgttcttattctacagacgaa 991
    || ||||| ||| ||| ||| ||||| ||||| ||||| ||||| ||||| |||
Db 548 taaatgtacagtagcttagatcctctgataaaacaagatgataalttacaatcattatg 607

QY 992 aaactatacgtgtgatgcttcaactccattcgaaataatacggagtagataaagtagtag 1051
    ||||| ||| ||| ||| ||||| ||||| ||| ||| ||| ||| ||| ||| |||
Db 608 aaacaattattgattatgaaccagctccaattgataacagtgatgagccattacaattcc 667

QY 1052 ttaaaagttataaagacaaaatg 1075
    ||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||
Db 668 aagtagcatgtgtgactacaatg 691
```

```
RESULT 8
US-09-815-242-4205
; Sequence 4205, Application US/09815242
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
```

```
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4205
; LENGTH: 1814
; TYPE: DNA
; ORGANISM: Staphylococcus aureus
US-09-815-242-4205
```

```
Query Match          1.2%; Score 45.6; DB 6; Length 1814;
Best Local Similarity 46.3%; Pred. No. 2.3;
Matches 150; Conservative 0; Mismatches 174; Indels 0; Gaps 0;
```

```
OY 752 aagcattagatgcagatgaagctgcgttactccaagaattgaaagtgtgaagtcgattta 811
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 320 aaacacgttltgtacttaaaaaagcgttagaacaacaaacctgaacctgtgtgtgtta 379

OY 812 acactcaaaacaaagctgttgaattaaacagcagctacagtgaaacggaacactaaattac 871
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 380 ataaatcgtataaacacatcagcagctcagaggggtgtgttagatgaagttttagattat 439

OY 872 aacttcagctgctcaaatgaagatacagtaaacgtaaatctgtctacgtatctataaag 931
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 440 ttattgaattagaagaacagatgaacaattgaattccctgtgtgttattgtcttcagcag 499

OY 932 tggacggtacattccatttgccttaatacagcagatgttcttattctacagacgaa 991
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 500 taatgtacagctagcttagatcctgtataaacaagatgataatttacaatcattatatg 559

OY 992 aaactatactgtggtgtctcaactccattcgaataataacgagatataaagtagtag 1051
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 560 aaacaattattgattgttaccagctcccaattgtataaacagtgatgagccattacaattcc 619

OY 1052 ttaaagttattaaagcaaaaatg 1075
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 620 aagtagcatgtgtgactacaatg 643
```

```
RESULT 9
US-09-984-429-344/c
; Sequence 344, Application US/09984429
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 53 Human Secreted Proteins
; FILE REFERENCE: P2018P2
; CURRENT APPLICATION NUMBER: US/09/984,429
; PRIOR APPLICATION NUMBER: 60/244,591
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/288,143
; PRIOR FILING DATE: 1999-04-08
; PRIOR APPLICATION NUMBER: PCT/US98/21142
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/061,463
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,529
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/071,498
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,527
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,536
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,532
; PRIOR FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 727
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 344
; LENGTH: 45698
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-984-429-344
```

```
Query Match          1.2%; Score 45.6; DB 6; Length 45698;
Best Local Similarity 50.8%; Pred. No. 6.9;
Matches 134; Conservative 0; Mismatches 129; Indels 1; Gaps 1;
```

```
OY 1609 aagttagaacgaatctacttagctgataacttgttattagtgaanaagaatctgttaca 1668
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 31895 ATGTTTCTGTAGTCTACTTTAATTGTTAAATTGTGAATTCTTAAGAAGACTGAGTAGTTT 31836

OY 1669 gtgtgtctctgaactaaatataatgcagacgctaaatgtaactttagtgccaaa 1728
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 31835 ATGTGAATCCCTAAAGCTACCACTAAAGATACAAAGATATATAGTAATAGCACACATA 31776

OY 1729 gcggacctaaagaaatacaatctatcaaatcaaaaattaaaaagcgtgaagtcgat 1788
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 31775 GATAAATTTAAATCAAAATTAATAATAGTATTCAAATTTGTCAAAAAGGCAGGAATGGGAA 31716

OY 1789 aaaggtattgaattagcactgtltaacygaaacatatagttcnaaacactcaagactta 1848
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 31715 ACAGAAGAAACAGAGACAAACAGAAAAACAATAAATGGTAGTCTTAA-TCCAAACATA 31657

OY 1849 actgctcctacagttattagcgta 1872
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 31656 TCTGTATCTATATCTATATGCATA 31633
```

```
RESULT 10
US-09-785-381-6
; Sequence 6, Application US/09785381
; GENERAL INFORMATION:
; APPLICANT: DALLOS, Peter
; APPLICANT: ZHENG, Jing
; APPLICANT: MADISON, Laird
; TITLE OF INVENTION: A MAMMALIAN PRESTIN
; FILE REFERENCE: 0290-3701
; CURRENT APPLICATION NUMBER: US/09/785,381
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: US 60/183,461
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 29485
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-785-381-6
```

```
Query Match          1.2%; Score 44.8; DB 6; Length 29485;
Best Local Similarity 54.2%; Pred. No. 9;
Matches 91; Conservative 0; Mismatches 77; Indels 0; Gaps 0;
```

```
OY 630 agtaacagacgctgtgaagcagccaatttagaacaagctaaagctgtgtgtatcaaat 689
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 14663 agtacagccactgcaaaaacatacaccaaatgttaagaaccattgatgtcttggataaact 14722

OY 690 caatcaactactaccaaaagtaacagatgtcttccaactgtaactaacagaaagtagcgaa 749
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 14723 gcataactaatgggcaaaaataacacagctagcatcatcaatgacagatcaaatlcacacac 14782

OY 750 aaaagcattagatgcagatgaagctgcgttacttccaaaagttgaag 797
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 14783 aacaatatcaaccttaaatgtlaaatgggtlaaagccccaattaaag 14830
```

```
RESULT 11
```



```

US-09-865-419A-10533
; Sequence 10533, Application US/09865419A
; GENERAL INFORMATION:
; APPLICANT: Conner, Timothy W.
; APPLICANT: Wu, Kunsheng
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(51935)B
; CURRENT APPLICATION NUMBER: US/09/865,419A
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 60/208,063
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 54020
; SEQ ID NO 10533
;
; LENGTH: 386
;
; TYPE: DNA
;
; ORGANISM: Zea mays
;
; FEATURE:
;
; OTHER INFORMATION: Clone ID: LIB3236-123-P1-N1-D3
US-09-865-419A-10533

```

	Query Match	1.28;	Score 44.2;	DB 5;	Length 386;	
	Best Local Similarity	48.2%;	Pred. No. 2.8;	Mismatches 0;	Indels 0;	Gaps 0;
	Matches 124;	Conservative				
QY	657	ttagacaaagctaaagctgctgtgtgatcaaatcaatcaataacttaaccaaaagttaacaga	716			
Db	104	tttatlaataataacaatatatttttanaaataaaaatrtaaaaaaataataata	163			
QY	717	tgctltcaaacgtgaactaacagaagtagcgaaaaaagcatfatgatygcagatgyaagctgc	776			
Db	164	tttatattaanaataaaaaaataltttaaaaaaaaaaaaaacaacaacatgtcgtataataataag	223			
QY	777	gcttactccaaaagttggaagtgtaagtgcgatttaacaactlcaaaaacaaagctgttgaatt	836			
Db	224	aataaaaaaaaagtltgaaaacctccaacactcctaatacaaaaaaaacagaaaagyaaga	283			
QY	837	aacagcagtgaccagtggaacggaaacactaaaatltaacaactltcaagctgcgcaaatgaaqa	896			
Db	284	gagaaaaaaaataacataaaaaaaataataatgttataagaanaa	343			
QY	897	tacagtaaacgtaataa	913			
Db	344	attaataaaaaataaaaaa	360			

```

RESULT 12
US-09-669-817A-14523/C
; Sequence 14523, Application US/09669817A
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: Ruan, Yifun G.
; APPLICANT: Wallick, C. Kevin
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(51469)B
; CURRENT APPLICATION NUMBER: US/09/669, 817A
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/156, 951
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 43701
; SEQ ID NO 14523
; LENGTH: 493
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: uc-osflcyp057g10b1
US-09-669-817A-14523

```

Query Match	1.2%;	Score 44.2;	DB 5;	Length 493;
Best Local Similarity	50.2%;	Pred. NO. 3.1;		

[illegible]

```

RESULT 13
US-09-815-264-58099/c
? Sequence 58099, Application US/09815264
? GENERAL INFORMATION:
? APPLICANT: Boukharov, Andrey A.
? APPLICANT: Cao, Yongwei
? APPLICANT: Dotson, Stanton B.
? APPLICANT: Koshi, Jeffrey M.
? APPLICANT: Kovalic, David K.
? APPLICANT: Liu, Jindong
? APPLICANT: McIninch, James
? APPLICANT: Wu, Wei
? TITLE OF INVENTION: Genomic Plant Sequences And Uses Thereof
? FILE REFERENCE: 38-21(51237)G
? CURRENT APPLICATION NUMBER: US/09/815,264
? CURRENT FILING DATE: 2001-03-23
? PRIOR APPLICATION NUMBER: US 09/620,392
? PRIOR FILING DATE: 2000-07-19
? PRIOR APPLICATION NUMBER: US 09/702,134
? PRIOR FILING DATE: 2000-10-31
? NUMBER OF SEQ ID NOS: 109669
? SEQ ID NO 58099
? LENGTH: 38219
? TYPE: DNA
? ORGANISM: Oryza sativa
US-09-815-264-58099

```

[illegible]

RESULT 14  
US-09-933-524A-104709/C  
; Sequence 104709, Application US/099333524A  
; GENERAL INFORMATION:  
; APPLICANT: Dirmanac, Radoje T.



```

; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Dickson, Mark
; APPLICANT: Jones, Lee W.
; TITLE OF INVENTION: Novel Nucleic Acid Sequences Obtained
; TITLE OF INVENTION: From Various Libraries
; FILE REFERENCE: 774
; CURRENT APPLICATION NUMBER: US/09/933,524A
; CURRENT FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 09/528,409
; PRIOR FILING DATE: 2000-05-17
; NUMBER OF SEQ ID NOS: 116231
; SOFTWARE: Hy-patent.pl Version 3.1
; SEQ ID NO 104709
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n - A,T,C or G
US-09-933-524A-104709

```

```

Query Match          1.2%; Score 44; DB 6; Length 396;
Best Local Similarity 47.2%; Pred. No. 3.2;
Matches 134; Conservative 0; Mismatches 150; Indels 0; Gaps 0;

```

```

QY 1268 ctattacagatgttgaaactggaacgcattccagtaattgcatctactctgtgtccta 1327
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 338 CTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279

QY 1328 caattactattacgttaaagaagcgtagtaactgtgtaaacatataaactgtatca 1387
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 278 CTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219

QY 1388 ataagtlaaaacataactgtgtacaaatgcagaagcttaacgaatgtagtggtcactgcaa 1447
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 218 CGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 159

QY 1448 acgcatacagcaccactgtgtacacgctcctactactttagtggtgtacaaacttactcta 1507
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 158 CCACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 99

QY 1508 ctggttcctcttacaacaatgtttggtgtaaatgtgctgtgtgt 1551
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 98 CTGCTACTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 55

```

```

RESULT 15
US-09-985-678-248315/c
; Sequence 248315, Application US/09985678
; GENERAL INFORMATION:
; APPLICANT: Cheikh, Nordine
; APPLICANT: Liu, Jingdong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 16517.255/38-21(15097)F
; CURRENT APPLICATION NUMBER: US/09/985,678
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 09/304,517
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 248315
; LENGTH: 442
; TYPE: DNA
; ORGANISM: Glycine max
US-09-985-678-248315

```

```

Query Match          1.2%; Score 43.8; DB 6; Length 442;
Best Local Similarity 48.2%; Pred. No. 3.7;
Matches 123; Conservative 0; Mismatches 132; Indels 0; Gaps 0;

```

```

QY 1826 atgagttcaaaactcaagacttaactgtctcctacagttatlagcylaacgtctaaatg 1885
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 360 ATGAGTATTTTGTGATGTAGAAGCTGAGACTGCAAAAGTGGCTAGAACTGGAAGCAG 301

QY 1886 gcyacgctgatttaaaaglaactgaagctcaagaatttactgtgaagttctcagagaatt 1945
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 300 TTGTTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 241

QY 1946 taatacatttaagtctacaaccglttcggttagcacaatcacatacaggtcagttgtctg 2005
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 240 CAACTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 181

QY 2006 taagtaaaagcgggtgcaaaactatctgctctlacagcaagtgacatcattccagctagt 2065
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 180 TGATGCCCTCTGTGACAAAGCTTTGTTGCAATAACTGCAACGAGATGATTGCAACTGTGT 121

QY 2066 ttgaagcggttactg 2080
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 120 CTGCTGCTGCTGCTGCTG 106

```

Search completed: January 10, 2002, 00:14:18  
Job time: 6098 sec

**THIS PAGE BLANK (USPTO)**